

## DIAZAPHOSPHACYCLES

### ABSTRACT OF THE DISCLOSURE

A diazaphosphacycle may be synthesized by reacting a phosphine  
5 with a diimine and optionally one or more equivalents of an acid halide, a sulfonyl  
halide, a phosphoryl halide, or an acid anhydride in the substantial absence of O<sub>2</sub> to  
form the diazaphosphacycle. The phosphine has the formula R<sup>1</sup>-PH<sub>2</sub> where R<sup>1</sup> is a  
substituted or unsubstituted aryl group, a substituted or unsubstituted alkyl group, a  
substituted or unsubstituted alkenyl group, a substituted or unsubstituted cycloalkyl  
10 group, or a substituted or unsubstituted ferrocenyl group.